RIGHTS resp-
onsibility
registry
CONNECTION
intr & tcl
RE-USE

FINE - GRAINED
SIZE
" LINK
" SITE
Translation

Content
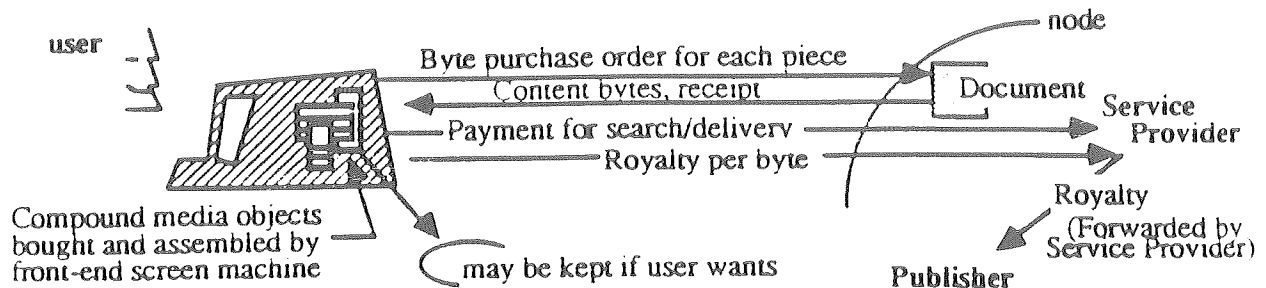Server
customer contact Billing
User interface
Networks

MEDIA FOR A POINT-AND-CLICK UNIVERSE:
A system for selling bytes on line, with open interconnectivity.

XANADU™ PUBLISHING IN BRIEF

PUBLISHER PAYS FOR STORAGE, READER PAYS FOR DELIVERY, including small royalty to publisher per byte.
READER MAY SEND FOR ANY PORTION, often a small increment, or linked material in another document.

user

Byte purchase order for each piece
Content bytes, receipt
Payment for search/delivery
Royalty per byte

node

Document

Service
Provider

Royalty
(Forwarded by
Service Provider)

Compound media objects bought and assembled by front-end screen machine

may be kept if user wants

Publisher

ANYONE MAY QUOTE ANYTHING in the Xanadu network by transclusion (virtual inclusion), meaning: "buy that part over there" -- from another publisher's document.
ANYONE MAY PUBLISH LINKS TO ANYTHING in the Xanadu network (comments, endorsement, illustration, disagreement...)
EVERY DOCUMENT IS OWNED; publisher pays for storage.
EVERY LINK IS OWNED as part of some document.
CONNECTING TO ONE XANADU NODE CONNECTS YOU TO ALL-- all nodes and documents and data objects.
ALL DATA STRUCTURES ARE WELCOME and connectable; there are no closed objects.

COPYRIGHT.

Copyright and royalty are automatic and unobtrusive. Publisher automatically receives royalty from user on every byte bought by user; publisher sets this royalty rate. (Service charges are separate.)
All bytes sent to reader are deemed to be purchased, since system cannot distinguish between "preview" and "downloading."
Reader's purchase of bytes includes the right to backup and one printout. (Additional arrangements are easily made.)

RIGHTS AND DUTIES BY CONTRACT.

READER agrees to terms of sale.
PUBLISHER claims right to publish the specific material. Publisher assumes legal responsibility for contents (THIS IS THE LEGAL DEFINITION OF "PUBLISHER"). Xanadu service provider, like a printer, is not involved with contents. Publisher relinquishes any rights to control transclusion, linkage, sequence of purchase, or size of purchase.
XANADU SERVICE PROVIDER promises integrity of document and correct delivery of contents and royalties.

FOR CONTRACTS AND FURTHER INFORMATION, send SASE to Xanadu On-Line Publishing, 3020 Bridgeway #295, Sausalito CA 94965.   © 1993 Xanadu OLP. XPIB d17b 93.8.23

Wais: ip-100p:rfc-188 : rfc@wais.com
http:

XANADU LIGHT #1 IS (very briefly):

Four public database tables, plus content bytes stored in standard and nonstandard files.
Each document lists its contents in a public table. STANDARD QUERIES may be asked:
author, title, what it connects to, what's in it, etc.; as well as SQL QUERIES sent by any user.

GRAND DIRECTORY OF ALL DOCUMENTS (public table)

(citation)   *doc_id*

Author	Title	Document Type s	Date of Pub.	© Owner	Size (may be misleading in hypermedia)

SEQUENTIAL PIECES OF DOCUMENT (royalty bytes)

Note that a document may include ("transclude") part of any other document,
simply by including that part in this table. Permission to do this is assured by
our publishing contract.

type of piece	© owner	author	publisher	where stored	size	royalty per byte

URL (Address),
URN (Name)

(ftp://wais.com/...)

DOCUMENT'S OUTBOUND LINKS

A document may contain any number of links of any number of
types. Each link connects to particular sets of bytes in this or
other documents. Note that a link contained in one document
may connect material between two others.

type of link .	left endset (bytes, node, document)	right endset (bytes, node, document)

The harpoon table is paid for by the respective publishers connecting to the document:

DOCUMENT'S INBOUND CONNECTIONS (HARPOONS)

This table records all the links and transclusions citing this document
from elsewhere. Since these connections are made by the choice of
others, the others pay for their presence in this table.

type of connection (transclusion, or link of whatever type)	left endset (bytes, node, document)	right endset (bytes, node, document)

Handout for Hypertext 93 Conference, Seattle.   LOMM   d5   93.11.14

Ted Nelson, Xanadu™ On-Line Publishing, 3020 Bridgeway #295, Sausalito CA 94965.   Fax 415/332-0136

THE LOGIC OF METAMEDIA

THE TRAGEDY OF CLOSED MEDIA.

Closed media, unusable together, unable to quote from or link to one another, are creating a Balkanized world of electronic media. Whereas what we need is *on-line media with compatible connections*-- for scholarship, controversy, anthologizing, understanding, the reworking of ideas, and freedom.

THEY DON'T UNDERSTAND WHAT WE NEED--

A Point-and-click universe. We want to be able to jump from document to document, like a squirrel from branch to branch, passing through one document on the way to another, purchasing just that moment's portion.

Networked interwoven documents. We need to be able to treat the network as a seamless whole, and the contents as a unified docuverse.

Royalty. Owners need to be paid. Copyright is not an imposition; it is the compromise under which things are made available. The new system must extend it inconspicuously and innocuously.

Open hypermedia publishing. Everyone must be free and equal to publish, to comment, to publish links, to quote. Quotation can work within the copyright system, by purchasing the quotation from the document of origin.

Compatibility. Enough of this hardware incompatibility hogwash! We need compatible *data*, to which the hardware is a window.

Connectedness. Any document must be able to connect to any other.

Stability. We need to know the material will be addressable in the same form and the same way, decades from now.

A Populist System. This cannot just be for the wireheads, early adopters, elite; it must be accessible to all.

THEREFORE WE START OUR OWN UNIVERSE.

CONCLUSION: THESE PREMISES LEAD TO A NEW PLAYING FIELD:

Open-ended technology, capped by trademark: a variety of database methods can implement this publishing model, in a mix of assured upward compatibility.

Defined by contract. Participants agree to unusual terms of sale, etc. No rights are relinquished by participants *except within this closed system.*

Promise of stability. Publisher and vendor agree to keep material in the repository.

Minute sale. Sale is interactive and on request, with royalty even on tiny portions.

Clean royalty. Proportional on every piece bought by user.

Arbitrary links. Any type of connection, from an expansible list of link types.

Quotation. Transclusion, or virtual instance pointer, says "buy from there."

TECHNICALITIES--

Harpoon table. Inbound links and transclusion pointers are stored also with the destination document; this storage is paid for by those who point.

Local caching of transclusions. Quoted material may be stored with a new document, still owned by original publisher, but storage paid for by new publisher.

Everyone is arguing about copyright and electronic publishing; few pay attention either to the law or the great possibility.

By law, the publisher is the person or entity responsible for published content.
And "Electronic publishing" cannot, must not mean only closed objects that have to be used separately.
The great possibility is a world of combinable objects that may be linked by users:

OPEN HYPERMEDIA PUBLISHING.

We want an enchanted grove, a fair playing field, where all connections and quotations are allowed and sorted out.
Copyright law by itself won't do it; and so we extend the law by a system of contracts.
If this is a world in which you would like to work and play, Welcome to Xanadu.

BILL OF INFORMATION RIGHTS
in the Xanadu™ Publishing Universe

AS A READER OR HYPERNAUT--

by connecting to one Xanadu supplier, you connect to the whole Xanadu universe.
you may point and click indefinitely from document to document, or within documents.
you may send for any part of any published object in complete privacy; no record is kept.
you may keep what you send for (and get a receipt token to help file it).
you may print it out and keep or give away the copy.

AS A PUBLISHER--

you may link to, comment on, append to any published document.
you may quote any other document within the system by transclusion pointer
        (the quotaton is bought automatically from the original publisher).
accordingly, you relinquish control of connections from other documents.
your document is kept inviolate.
you may publish anything within the law.*
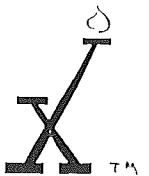you take responsibility for the contents and all possible violations of law and tort--
        -- just as you do in paper publishing.

AS A SUPPLIER--

you may locate anywhere, connect to your customers in any way.
charge what you like for storage and connection.
give credit, or accept payment or trade in any form.

* Future hot spot for litigation, prosecution, persecution, etc. Be warned. Make no mistake: we are entering a world of danger. There are bad guys. Shit will happen. This is an endeavour to keep our freedoms while staying within the law, whatever that may turn out to be.

Info Rights d8
93.7.22